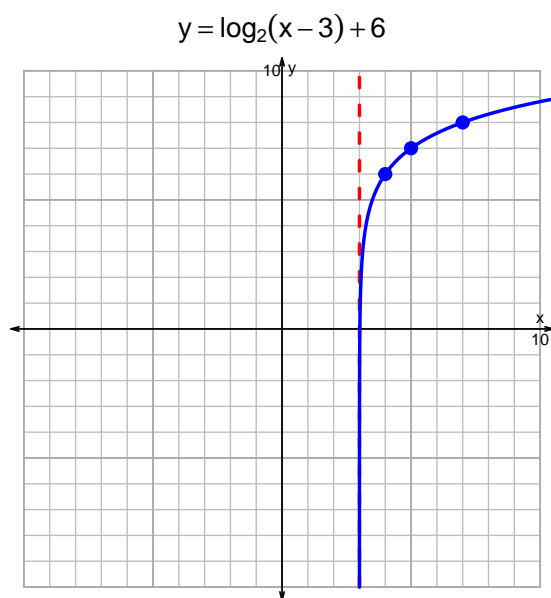
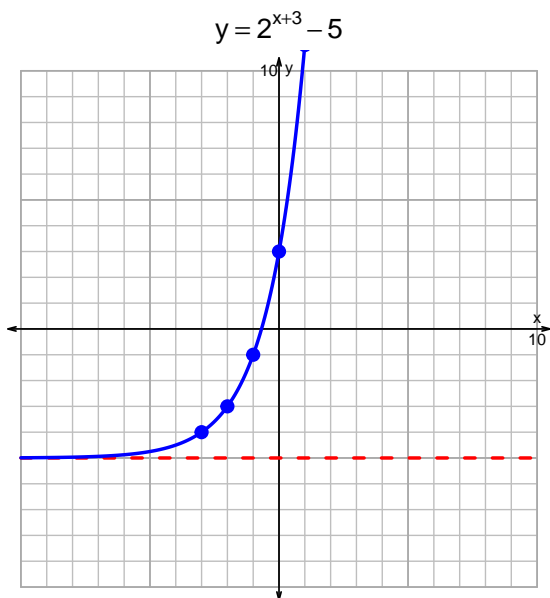


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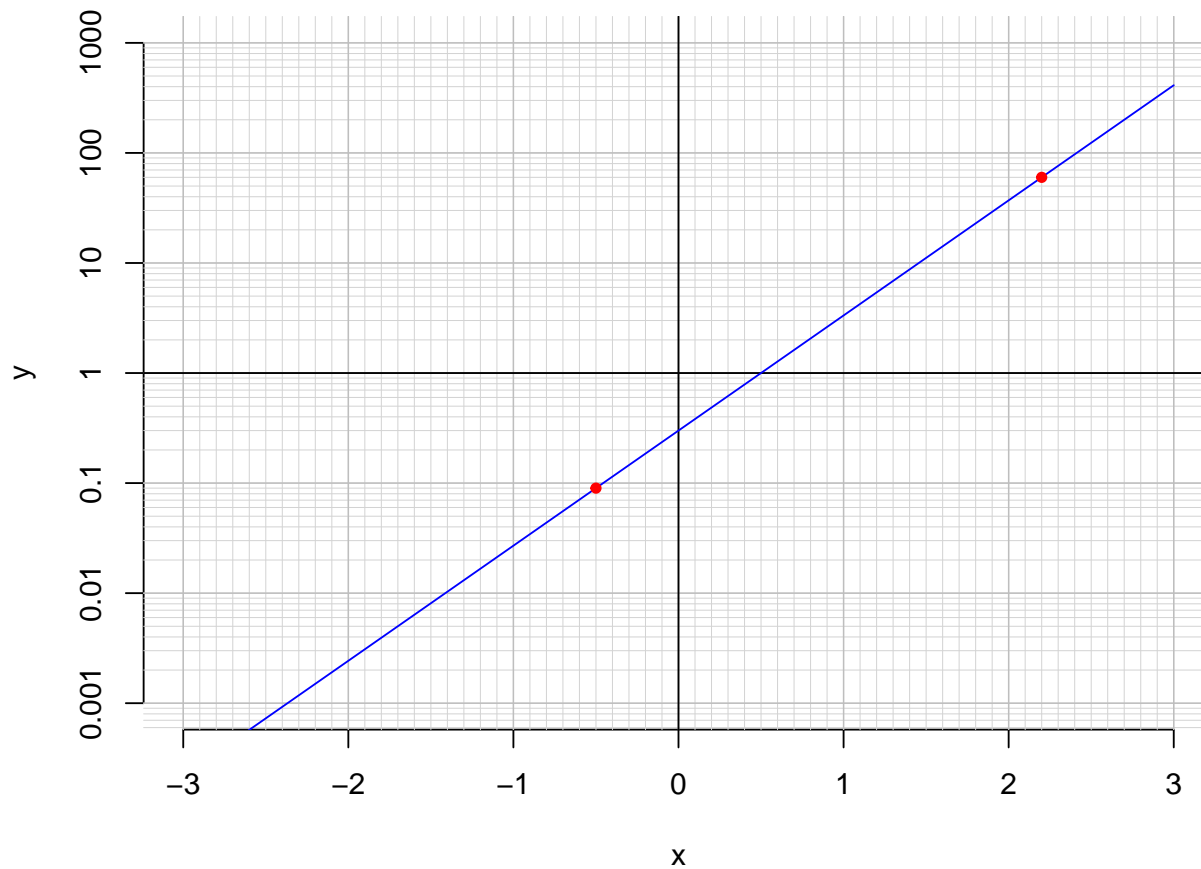
Date: _____

s18QUIZ: EXP LOG (SLTN v229)

1. Graph $y = 2^{x+3} - 5$ and $y = \log_2(x - 3) + 6$ on the grids below. Also, draw any asymptotes with dotted lines.



3. An exponential function $f(x) = 0.3 \cdot e^{2.41x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-0.5)$.

$$f(-0.5) = 0.09$$

- b. Express $f^{-1}(x)$, the inverse of f .

$$f^{-1}(x) = \frac{1}{2.41} \cdot \ln\left(\frac{x}{0.3}\right)$$

- c. Using the plot above, evaluate $f^{-1}(60)$.

$$f^{-1}(60) = 2.2$$